



HILL - EUL Industry Day

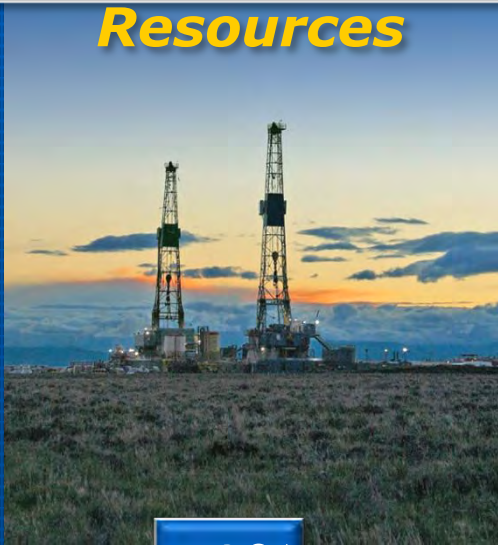
Stephanie Gallegos
Questar Gas Company
December 9, 2009

Questar's Businesses

About \$9.5 billion enterprise value

Exploration & Production

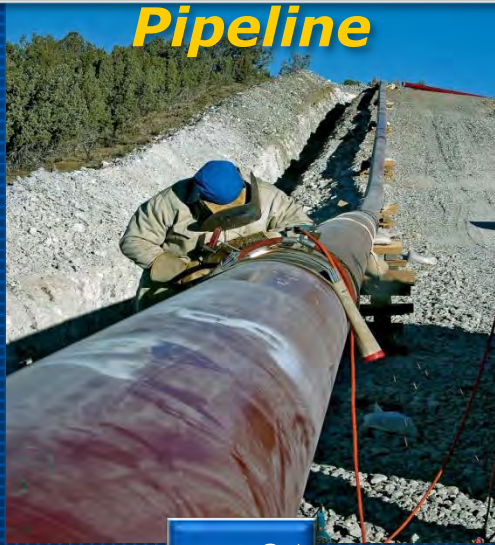
Market Resources



72%

Transmission

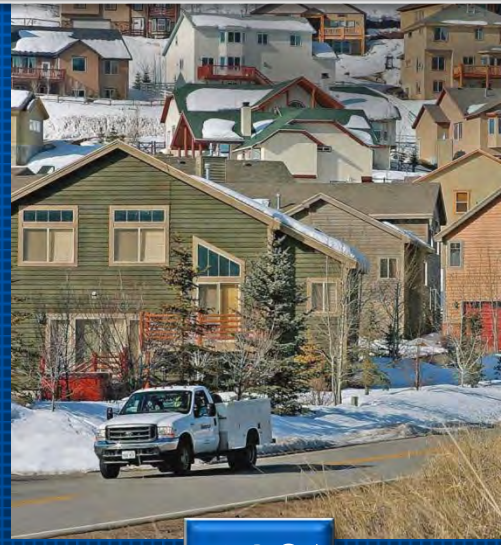
Questar Pipeline



16%

Distribution

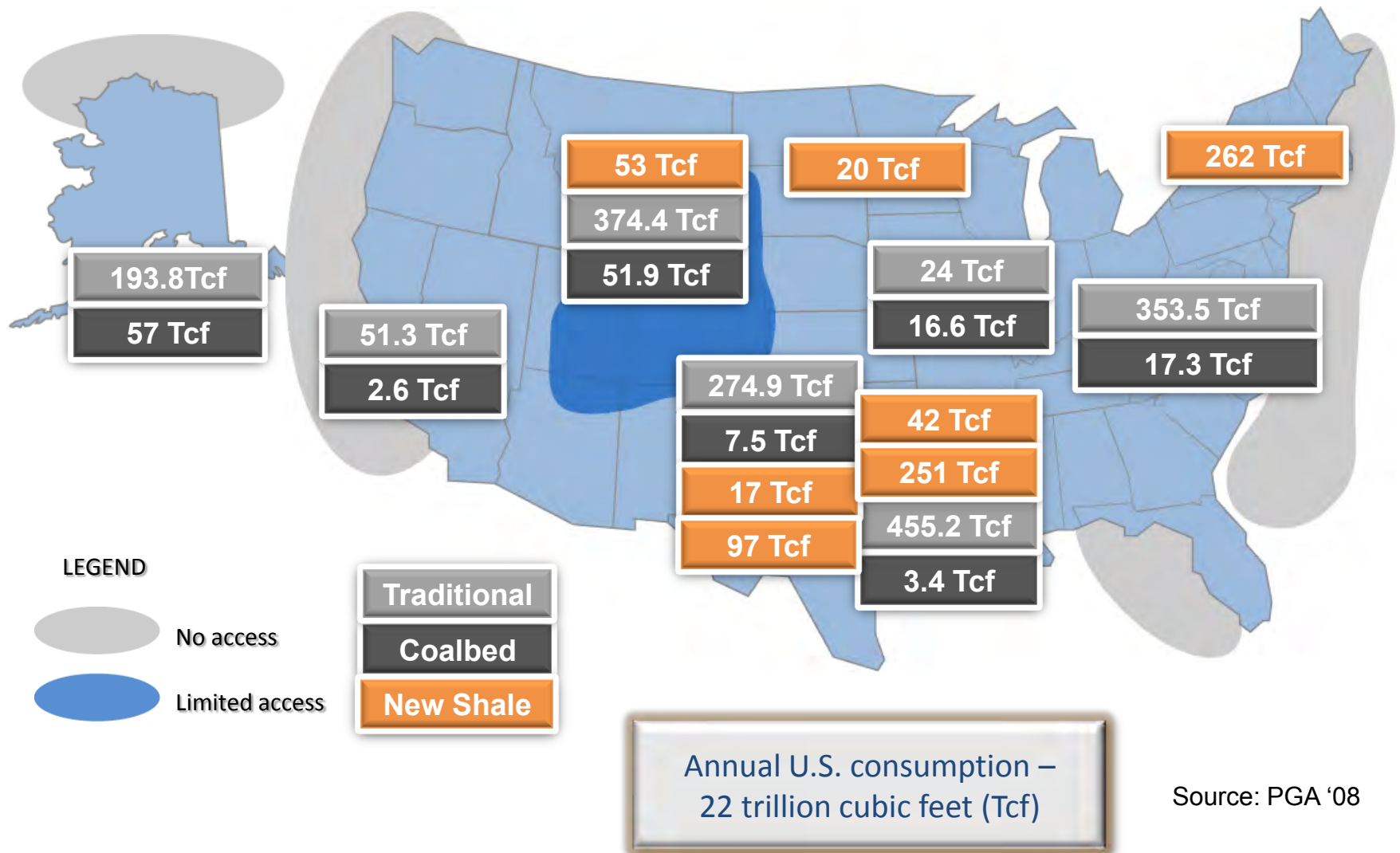
Questar Gas



12%

Net Income Contribution

The U.S. has ample natural gas resources: 100-year supply



Customer Segments

- Residential
- Commercial/Industrial
- Natural Gas Vehicles
- Customer Related Duties
 - Economic Development
 - End-Use Research



Commercial

Industrial



Commercial / Industrial Customers

- Questar Gas serves ~72,000 Commercial / Industrial Customers
- Usage is ~ 60% of throughput
- Non-gas revenue ~ 25%



Key Accounts

- Electrical Generation
- Primary Metals
- Defense Industry
 - Hill AFB
- Universities
- School Districts
- Large Health Care Organizations
- State, City and County accounts



Current Co-Generation

- Maca Supply 4 MW
- Snowbird - 2 MW
- Tesoro – 22 MW
- US Magnesium – 36 MW
- Utah State University – 5 MW
- University of Utah – 6.5 MW



University of Utah

- *Electricity generation: 6.5 MW (10% of the existing lower campus electrical load)*

NOTE: No power sales to grid

- *High-temperature water production: 100 MMBTUH (all of the existing lower campus high-temperature water load)*
- *Reduced carbon emissions*



CO₂ Emission Reductions from Cogeneration

Conventional Generation

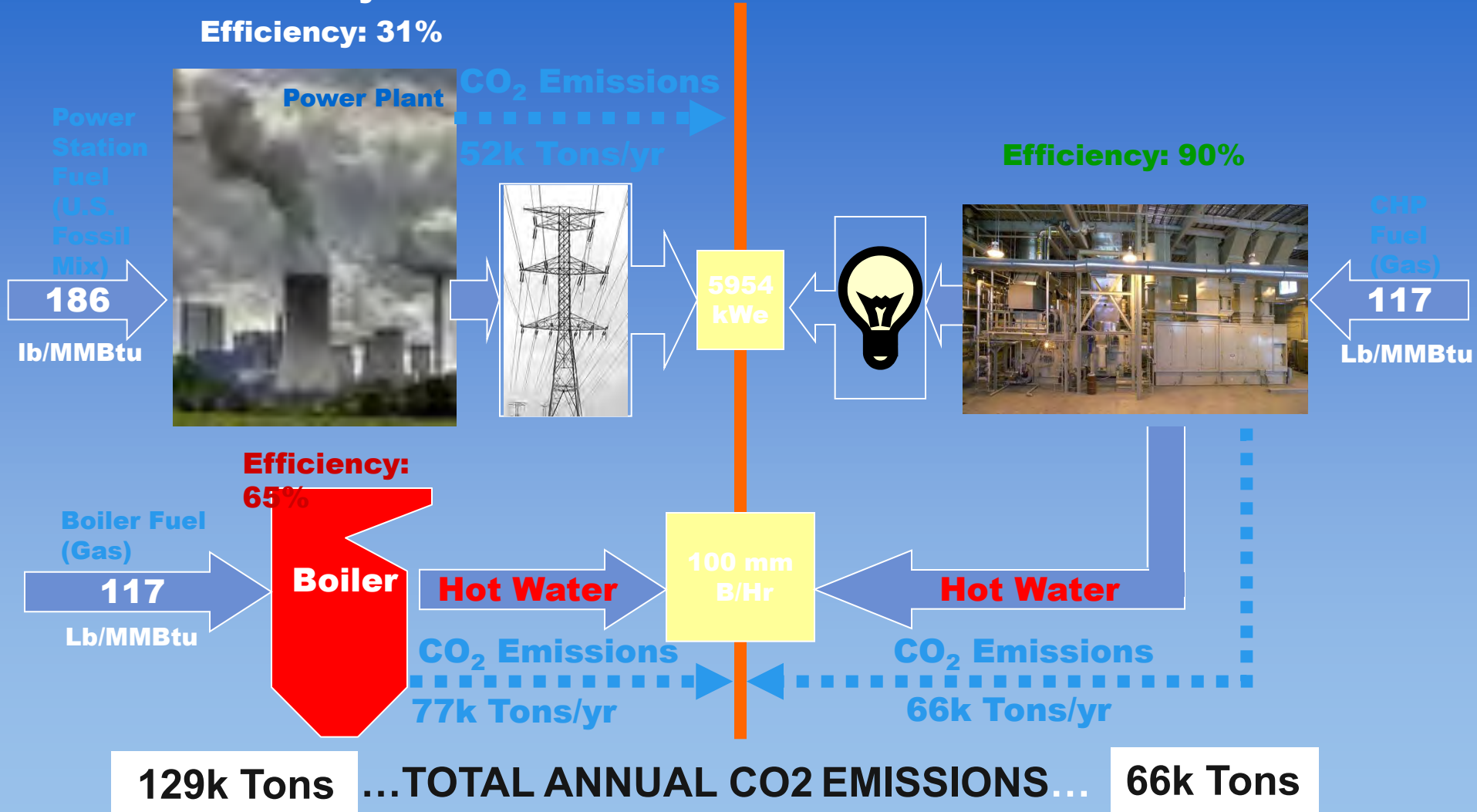
Electric Utility and Boiler

Efficiency: 31%

Combined Heat & Power

7.5 MW Gas Turbine

Efficiency: 90%



Turbine and generator



Gas line installation

- *6 inch diameter steel all-welded construction. All welds were x-ray inspected*
- *1 mile of pipe direct buried at approximately 48 in. below grade*
- *High-pressure natural gas*
- *Meter set and gas conditioning skid at termination*



Construction phases

- *Gas line installation*
- *Turbine and generator fabrication and installation*
- *Waste heat recovery unit fabrication and installation*
- *Asbestos abatement*
- *Demolition*
- *Mechanical fabrication*
- *Building modifications*
- *Electrical installation*





Tesoro
Salt Lake City, Utah

Tesoro Co-Generation Project

- *Co-Generation: Produce two sources of energy from one process*
 - *Electricity and steam from fuel*
 - *Fuel both purchased natural gas and self-produced gas (no liquid)*
- *22 MW and 350k lb/hr of steam*
- *Plant use 75% power and 100% steam*
- *Two parallel trains*



These investments in wind, in solar and biofuels and **focus on natural gas**, these are the real alternatives... It's a national security issue, it's an economic issue, it's an environmental health issue, and it is a moral issue to protect this environment.

Nancy Pelosi, Meet the Press

August 24, 2008



Questions?

